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Substitute for form 1449A/PTO

Sheet

MFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known Application Number 10/790,239 Filing Date March 2, 2004 COTE First Named Inventor 1723 Group Art Unit Not Yet Assigned **Examiner Name** 4320-561 Attorney Docket Number

Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of	Pages, Columns, Lines, Where Relevant
fnitials *	No.1	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Cited Document	Passages or Relevant Figures Appear
AF		US- 5,192,456	03/09/93	Ishida et al.	
١,		US- 5,230,796	07/27/93	Ter Meulen	
		US- 5,248,424	09/28/93	Cote et al.	
		US- 5,480,553	01/02/96	Yamamori et al.	
		US- 5,639,373	06/17/97	Manehendran	
		US- 5,783,083	07/21/98	Henshaw et al.	
		US- 5,922,201	07/13/99	Yamamori et al.	
1		US- 6,156,200	12/05/00	Zha et al.	
V		US- 6,214,231	4/10/01	Cote et al.	
AK		US- 6,325,928	12/4/01	Pedersen et al.	
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		FOREIGN PA	TENT DOCU	MENTS		
Examiner Initials*		Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,	
	Cite No.1	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T⁰
HI		JP 62-144712	06/27/87	Nippon Genshiryoku Jigyo		<b>√</b> Abstract
1		EP 0931582	07/28/99	Mitsubishi Rayon Co.		
		EP 0598909	01/14/98	Mitsubishi Rayon Co.		
		WO 98/28066	07/02/98	Memtec America Corp.		
		WO 99/29630	06/17/99	Mitsubishi Rayon Co.		<b>\</b>
		JP 07024272	01/27/95	Mitsubishi Rayon Co.		<b>\</b>
/		JP 7275665	10/24/95	Mitsubishi Rayon Co.		1
DIE		· WO 00/21890	04/20/00	Zenon Environmental Inc.		

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Examiner Signature	flem	Inha	Date Considered	8/27/04	_

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				Filing Date	March 2, 2004
SIA	ismishib.	Y 1951	PPLICANT	First Named Inventor	COTE
				Group Art Unit	1723
	(use as many she	ets as	necessary)	Examiner Name	Not Yet Assigned
	100	6	14	Attorney Docket Number	4320-561

			U.S. PATENT D	OCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
Initials *	No.1	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY		Figures Appear
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		FOREIGN	PATENT DOCU	wents		
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
M		DE 3318412	11-22-1984	Manzel GMBH & Co.		
1		English language abstract of JP 04-265128				<u> </u>
		JP 04-265128	09-21-1992	Ebara Res Co. Ltd.		<del> </del>
		English language abstract of JP 07-185270				
		JP 07-185270	07-25-1995	Kurita Water Ind Ltd.		Machine
		JP 07-185271	07-25-1995	Kurita Water Industries Ltd.		Machine
		English language abstract of JP 07-251042				<u> </u>
	1	JP 07-251042	10-03-1995	Kubota Corp.		<b>↓</b>
		English language abstract of JP 08-187494				
	†	JP 08-187494	07-23-1996	Kubota Corp.		ļ
		JP 08-323161	12-10-1996	Hitachi Plant Engineering & Construction Co., Ltd.		Machine
1		English language abstract of JP 09-192688				
AL	1	JP 09-192688	07-29-1997	Hitachi Chem. Co. Ltd.		Machine

Examiner Signature	Date Considered	8/27/04

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INFORMATION DISCLOSURE					Application Number	10/790,239
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					Group Art Unit	1723
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	Sheet	3	of	4	Attorney Docket Number	4320-561

		FOREIGN PA	TENT DOCU	wents		
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>8</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentae or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	τ°
AL	,	English Language Abstract of Japanese Patent Publication No. JP7024264,	01/27/95	Mitsubishi Rayon Co.		
1		English Language Abstract of Japanese Patent Publication No. JP7289859,	11/7/95	Mitsubishi Rayon Co.		
		English Language Abstract of Japanese Patent Publication No. JP8257372,	10/08/96	Mitsubishi Rayon Co.	•	
		English Language Abstract of Japanese Patent Publication No. JP10244262,	09/14/98	Mitsubishi Rayon Co.		
		English Language Abstract of Japanese Patent Publication No. JP11076764,	03/23/99	Mitsubishi Rayon Co.		<u> </u>
		English Language Abstract of Japanese Patent Publication No. JP11104466,	04/20/99	Mitsubishi Rayon Co.		
		English Language Abstract of Japanese Patent Publication No. JP8019730,	01/23/96	Inax Corp. et al.		
		English Language Abstract of Japanese Patent Publication No. JP7155564,	06/20/95	Mitsubishi Rayon Co.		
		English Language Abstract of Japanese Patent Publication No. JP9215980,	08/19/97	Mitsubishi Rayon Co. et al.		
		English Language Abstract of Japanese Patent Publication No. JP7178321,	07/18/95	Mitsubishi Rayon Co.		
		English Language Abstract of Japanese Patent Publication No.JP60261509,	12/24/85	Toshiba K.K.		
		English Language Abstract of Japanese Patent Publication No. JP9099222,	04/15/97	Mitsubishi Rayon Co.		
		English Language Abstract of Japanese Patent Publication No. JP11165200,	06/22/99	Mitsubishi Rayon Co. et al.		
		English Language Abstract of Japanese Patent Publication No. JP8332483	12/17/96	Inax Corp. et al.		
		English Language Abstract of Japanese Patent Publication No. JP10118470,	05/12/98	Mitsubishi Rayon Co.		
	<del> </del>	English Language Abstract of Japanese Patent Publication No. JP08024591,	01/30/96	Inax Corp.		
		English Language Abstract of Japanese Patent Publication No. JP2000-288359	10/17/00	Hitachi Plant Eng & Constr Co. Ltd.		
V		English Language Abstract of Japanese Patent Publication No. JP07-185271	07/25/95	Kurita Water Ind. Ltd.		
AE		English Language Abstract of Japanese Patent Publication No. JP08-323161	12/10/96	Hitachi Plant Eng & Constr Co. Ltd.		

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Examiner Signature	Date Considered	27/04

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<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>0</sup> Applicant is to place a check mark here if English language Translation is attached.

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	Substitute	e for form 144	9A/PTO				Complete if Known	
	11150	D				Application Number	10/790,239	
INFORMATION DISCLOSURE						Filing Date	March 2, 2004	
	STA	TEMEN	TBY	AP	PLICANT	First Named Inventor	COTE	
						Group Art Unit	1723	
		(use as ma	any sheets	s as n	ecessary)	Examiner Name	Not Yet Assigned	
_	Sheet	4		of _	4	Attorney Docket Number	4320-561	

OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS							
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²				
i4 f		SUDA, K. et al. "Development of a tank-submerged type membrane filtration system", June 1998, P. 151-158					
AF		Technical Drawings of ZW500C RO module; ZENON Environmental Inc; pages 1-3, drawings not published but relate to a module used or sold in the U.S.A. prior to May 17, 2001.					

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